

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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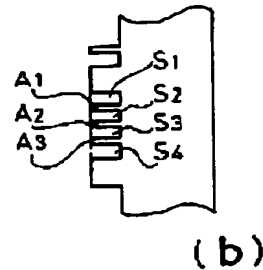
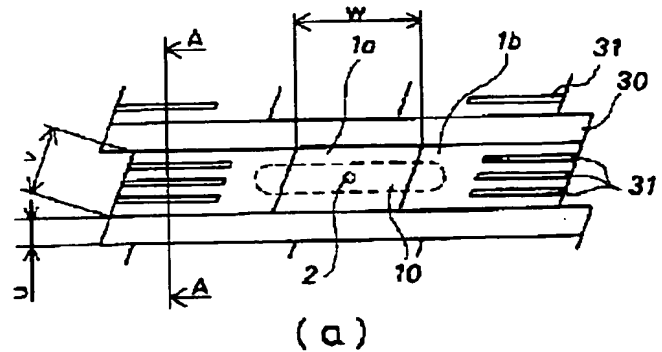
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INT.CL. : B41J 2/045 B41J 2/055

TITLE : INK JET HEAD AND RECORDING METHOD



ABSTRACT : PURPOSE: To enable low viscous ink to be discharged on high frequency by a method wherein Helmholtz frequency is at least a specific value, and fins are provided in a pressure generating chamber in an ink jet head having a piezoelectric vibrator which abuts against a diaphragm to pressurize the pressure generating chamber.

CONSTITUTION: A pressure generating chamber is formed by etching single crystal materials of silicon or the like. Its components are a through hole 1a of V and W in length of side and a half etching part 1b. Fins 31 are provided onto the half etching part 1b. The pressure generating chamber can increase resistance without increasing inertance by this structure. Thereby, low viscous ink can be discharged high frequency by raising a Helmholtz frequency higher than 50kHz.

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